WHAT IS CLAIMED IS:

1. A stable pharmaceutical formulation comprising:

one or more amino acids which is susceptible to formation of a lactam;
one or more stabilizers to inhibit the formation of said lactam, said stabilizer
comprising a composition that is known to reduce ionic activity; and
at least 20 ppm of an anion.

- 2. The formulation of claim 1 wherein said formulation contains less than 2% by weight of a degradation product of the amino acid after being maintained for 3 months at 40 degrees Centigrade and 75 % relative humidity.
- 3. The formulation of claim 1 exhibiting a degradation rate of the amino acid no greater than the degradation rate observed in a similar formulation without electronegative ions.
- 4. The formulation of claim 1 wherein said at least one stabilizer is a volatile alcohol, a non-volatile liquid, water miscible liquid or solid, a water immiscible liquid or solid, a liquid surface active agent, a solid surface active agent, an antioxidant, a ketone, or an aldehyde.
- 5. The formulation of claim 1 wherein at least one stabilizer is a polyethylene glycol of high molecular weight, polyvinylpyrrolidone, or silicon dioxide.

10 But fine 10 But land 10 Con 10 But fine 10 But land 10 But land

- 6. The formulation of claim 1 wherein the stabilizer is ethanol, acetone, glycerin, propylene glycol, or polysorbates.
- 7. The formulation of claim 1 wherein said stabilizer is a liquid with a low dielectric constant.
- 8. The formulation of claim 8 wherein said stabilizer is a liquid with a dielectric constant below 60.
- 9. The formulation of claim 8 wherein said stabilizer is a liquid with a dielectric constant below 45.
- 10. The formulation of claim 8 wherein said stabilizer is a liquid with a dielectric constant below 30.
- 11. The formulation of claim 1 wherein the amino acid is an amino acid in a crystalline anhydrous form.
- 12. The formulation of claim 1 wherein the amino acid is a cyclic amino acid.
- 13. The formulation of claim 12 wherein the cyclic amino acid is a cyclic amino acid of formula:

$$\begin{array}{c|c} \mathsf{NH_2} & \mathsf{COOR_1} \\ \hline \\ (\mathsf{CH_2})_n \end{array}$$

wherein R_1 is selected from the group consisting of hydrogen and a lower alkyl and n is an integer from about 4 to about 6.

- 14. The formulation of claim 13 wherein the cyclic amino acid is gabapentin.
- 15. The formulation of claim 1 further comprising one or more adjuvants.
- 16. The formulation of claim 15 wherein the adjuvant is a pharmaceutically acceptable excipient.
- 17. The formulation of claim 15 wherein the adjuvant is a modified cellulose, a microcrystalline cellulose, a starch, a sodium starch glycolate, talc, or stearates.
- 18. The formulation of claim 17 wherein the adjuvant is corn starch.
- 19. The formulation of claim 15 wherein the adjuvant retards degradation of the amino acid.
- 20. The formulation of claim 1 wherein the pharmaceutical formulation is formed as a tablet, a coated tablet, a caplet, a bead, a capsule, or a hard shell gelatin capsule, or a hard shell

HPMC capsule.

21. A formulation comprising:

at least one amino acid which is susceptible to formation of a lactam;
one or more stabilizers to inhibit the formation of said lactam, the stabilizer
being one which is known to reduce ionic activity; and

at least 20 ppm of an anion from a mineral acid.

- 22. The formulation of claim 21 wherein said formulation contains less than 2% by weight of a degradation product of the amino acid after being maintained for 3 months at 40 degrees Centigrade and 75 % relative humidity.
- 23. The formulation of claim 21 exhibiting a degradation rate of the amino acid no greater than the degradation rate observed in a similar formulation without electronegative ions.
- 24. The formulation of claim 21 wherein said at least one stabilizer is a volatile alcohol, a non-volatile alcohol, a non-volatile liquid, water miscible liquid or solid, a water immiscible liquid or solid, a liquid surface active agent, a solid surface active agent, an antioxidant, a ketone, or an aldehyde.
- 25. The formulation of claim 21 wherein at least one stabilizer is a solid polyethylene glycol of high molecular weight, polyvinylpyrrolidone, silicon dioxide, or a combination thereof.

- 26. The formulation of claim 21 wherein the stabilizer is ethanol, acetone, glycerin, propylene glycol, or polysorbates.
- 27. The formulation of claim 21 wherein said stabilizer is a liquid with a low dielectric constant.
- 28. The formulation of claim 27 wherein said stabilizer is a liquid with a dielectric constant below 60.
- 29. The formulation of claim 27 wherein said stabilizer is a liquid with a dielectric constant below 45.
- 30. The formulation of claim 27 wherein said stabilizer is a liquid with a dielectric constant below 30.
- 31. The formulation of claim 21 wherein the amino acid is gabapentin in its crystalline, anhydrous form.
- 32. The formulation of claim 21 wherein the mineral acid is hydrochloric acid.

- 33. The formulation of claim 21 wherein the mineral acid is hydrochloric acid and the amino acid is gabapentin.
- 34. The formulation of claim 21 wherein the anion is Cl obtained from hydrochloric acid.

F 14.8 Cm. 19 56.3 14.8 Cm. 18 11 56.1 Cm 14.8 4.8 4.8

- 35. The formulation of claim 21 wherein the lactam is present in an amount less than about 0.8% by weight of the active ingredient.
- 36. The formulation of claim 21 wherein the lactam is present in an amount less than about 0.4% by weight of the active ingredient.
- 37. The formulation of claim 21 wherein the lactam is present in an amount less than about 0.25% by weight of the active ingredient.
- 38. The formulation of claim 21 wherein the lactam is present in an amount less than about 0.15% by weight of the active ingredient.
- 39. The formulation of claim 21 further comprising one or more adjuvants.
- 40. The formulation of claim 39 wherein the adjuvant is a pharmaceutically acceptable excipient.
- 41. The formulation of claim 39 wherein the adjuvant is a modified cellulose, a microcrystalline cellulose, a starch, a sodium starch glycolate, talc, or stearates.
- 42. The formulation of claim 41 wherein the adjuvant is corn starch.
- 43. The formulation of claim 39 wherein the adjuvant retards degradation of the amino acid.

- 44. The formulation of claim 21 wherein the pharmaceutical formulation is formed as a tablet, a coated tablet, a bead, a hard shell gelatin capsule, or a hard shell HPMC capsule.
- 45. A process for forming a stable pharmaceutical formulation containing at least 20 ppm of an anion, comprising the steps of treating an amino acid susceptible to formation of a lactam with a stabilizer to inhibit the formation of said lactam.
- 46. The process of claim 45 wherein the stabilizer is a volatile alcohol, a non-volatile alcohol, a non-volatile liquid, water miscible liquid or solid, a water immiscible liquid or solid, a liquid surface active agent, a solid surface active agent, an antioxidant, a ketone, or an aldehyde.
- 47. The process of claim 45 wherein the stabilizer is a solid polyethylene glycol of high molecular weight, polyvinylpyrrolidone, silicon dioxide, or a combination thereof.
- 48. The process of claim 45 further comprising the step of reacting the amino acid with a mineral acid.
- 49. The process of claim 45 further comprising the step of washing the amino acid to remove at least a portion of the mineral acid.
- 50. The process of claim 48 wherein the amino acid is treated with the stabilizer during purification of the amino acid to form a purified amino acid.

- 51. The process of claim 48 wherein the amino acid is treated with the stabilizer during granulation of the amino acid.
- 52. The process of claim 45 wherein the amino acid is treated with a first stabilizer during purification to form a purified amino acid and the purified amino acid is treated with a second stabilizer during granulation of the purified amino acid.
- 53. A stable pharmaceutical formulation comprising:

one or more active agents that are susceptible to degradation caused by electronegative ions;

one or more stabilizers to inhibit the degradation; and at least 20 ppm of an anion.

- 54. The formulation of claim 53 wherein said formulation contains less than 2% by weight of a degradation product of the amino acid after being maintained for 3 months at 40 degrees Centigrade and 75 % relative humidity.
- 55. The formulation of claim 53 exhibiting a degradation rate of the amino acid no greater than the degradation rate observed in a similar formulation without electronegative ions.
- 56. The formulation of claim 53 wherein the active agent is an amino acid.

- 57. The formulation of claim 53 wherein the active agent is susceptible to degradation caused by a process selected from the group consisting of formation of a lactam, or dehydration and cyclization.
- 58. The formulation of claim 53 wherein the stabilizer is a volatile alcohol, a non-volatile alcohol, a non-volatile liquid, water miscible liquid or solid, a water immiscible liquid or solid, a liquid surface active agent, a solid surface active agent, an antioxidant, a ketone, or an aldehyde.
- 59. The formulation of claim 53 wherein the stabilizer is a solid polyethylene glycol of high molecular weight, polyvinylpyrrolidone, silicon dioxide, or a combination thereof.
- 60. The formulation of claim 53 wherein the stabilizer is ethanol, acetone, glycerin, propylene glycol, or polysorbates.
- 61. The formulation of claim 53 wherein the active agent is an amino acid in a crystalline anhydrous form.
- 62. The formulation of claim 53 wherein the active agent is gabapentin.
- 63. The formulation of claim 58 wherein the active agent is anhydrous gabapentin.
- 64. The pharmaceutical unit dosage form of an amino acid susceptible to lactam formation comprising:

the amino acid;

at least 20 ppm of anionic species; and

at least one stabilizer for inhibiting formation of the lactam, the dosage form exhibiting improved stability as compared to a similar formulation with less than 20 ppm anionic species.